



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

ASAP

**D3779-043**  
**Job Sheet 188031**



Part No: D3779-043

Job Qty: 6 pcs

Part Name: Handle Assembly (Interior)



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 1/2/19

Job Tracking No:

Due Date: 1/4/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV C SHEETS 1,2,4 IPP Rev:A 08-05-20 new issue DD verified by:ec IPP Rev:B 08-07-21 procedure change DD verified by:EC IPP Rev:C 11.12.02 as per dwg revB DD verf:EC

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation           | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off    |
|-------|---------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|-------------|
|       |                     |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |             |
| 100   | Waterjet - Flow - 1 | 6 pcs | 1/4/19     | 1/4/19   | 0.00      | 0.46    | Waterjet - Flow       |           | DC 19/01/04 |
| 110   | QC 2                | 6 pcs | 1/4/19     | 1/4/19   | 0.00      | 0.00    | QC 2 - 1              |           | DC 19/01/04 |
|       |                     |       |            |          |           |         | QC 2 - 12             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 14             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 17             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 19             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 2              |           |             |
|       |                     |       |            |          |           |         | QC 2 - 20             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 22             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 23             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 25             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 32             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 33             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 35             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 38             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 39             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 4              |           |             |
|       |                     |       |            |          |           |         | QC 2 - 40             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 44             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 45             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 48             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 49             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 50             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 51             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 52             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 54             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 56             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 57             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 62             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 63             |           |             |
|       |                     |       |            |          |           |         | QC 2 - 8              |           |             |
| 120   | QC 8                | 6 pcs | 1/4/19     | 1/4/19   | 0.00      | 0.00    | QC 8 - 12             |           |             |

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                      |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br><div style="display: flex;"> <div style="flex: 1;">           Operator <input type="checkbox"/><br/>           Manufacturing Process <input type="checkbox"/><br/>           Equip/Tooling <input type="checkbox"/><br/>           Handling/Presservation <input type="checkbox"/><br/>           Material <input type="checkbox"/><br/>           Product Improvement <input type="checkbox"/><br/>           Process Improvement <input type="checkbox"/><br/>           Human Factors <input type="checkbox"/> </div> <div style="flex: 1;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex;"> <div style="flex: 1;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="flex: 1;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="flex: 1;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |



|                                          |       |        |           |                           |              |
|------------------------------------------|-------|--------|-----------|---------------------------|--------------|
|                                          |       |        |           | QC 8 - 14                 |              |
|                                          |       |        |           | QC 8 - 17                 |              |
|                                          |       |        |           | QC 8 - 20                 |              |
|                                          |       |        |           | QC 8 - 25                 |              |
|                                          |       |        |           | QC 8 - 3                  |              |
|                                          |       |        |           | QC 8 - 32                 |              |
|                                          |       |        |           | QC 8 - 33                 |              |
|                                          |       |        |           | QC 8 - 35                 | DAS          |
|                                          |       |        |           | QC 8 - 38                 | 38           |
|                                          |       |        |           | QC 8 - 39                 | 9-89         |
|                                          |       |        |           | QC 8 - 4                  |              |
|                                          |       |        |           | QC 8 - 44                 |              |
|                                          |       |        |           | QC 8 - 45                 |              |
|                                          |       |        |           | QC 8 - 49                 |              |
|                                          |       |        |           | QC 8 - 58                 |              |
|                                          |       |        |           | QC 8 - 8                  |              |
|                                          |       |        |           | QC 8 - 9                  |              |
|                                          |       |        |           | QC 8 - 68                 |              |
|                                          |       |        |           | QC 8 - 67                 |              |
| 130 Small Fab - 2 - B4B                  | 6 pcs | 1/4/19 | 0.00 3.00 | Small Fab - 1 - B4B       |              |
|                                          |       |        |           | Small Fab - 2 - B4B       |              |
|                                          |       |        |           | Small Fab - 3 - B4B       | DAS          |
|                                          |       |        |           | Small Fab - 4 - B4B       | 36           |
|                                          |       |        |           | Small Fab - 5 - B4B       | 9-89         |
|                                          |       |        |           | Small Fab - 6 - B4B       |              |
|                                          |       |        |           | Small Fab - 7 - B4B       |              |
| 140 QC 5                                 | 6 pcs | 1/4/19 | 0.00 0.00 | QC 5 - 10                 |              |
|                                          |       |        |           | QC 5 - 12                 |              |
|                                          |       |        |           | QC 5 - 17                 |              |
|                                          |       |        |           | QC 5 - 18                 |              |
|                                          |       |        |           | QC 5 - 19                 |              |
|                                          |       |        |           | QC 5 - 22                 |              |
|                                          |       |        |           | QC 5 - 24                 |              |
|                                          |       |        |           | QC 5 - 3                  | DAS          |
|                                          |       |        |           | QC 5 - 38                 | 38           |
|                                          |       |        |           | QC 5 - 42                 | 9-89         |
|                                          |       |        |           | QC 5 - 43                 |              |
|                                          |       |        |           | QC 5 - 49                 |              |
|                                          |       |        |           | QC 5 - 51                 |              |
|                                          |       |        |           | QC 5 - 58                 |              |
|                                          |       |        |           | QC 5 - 68                 |              |
|                                          |       |        |           | QC 5 - 9                  |              |
|                                          |       |        |           | QC 5 - 50                 |              |
|                                          |       |        |           | QC 5 - 30                 |              |
| 150 Handfinish - 1-1 Chemical- B4B 6 pcs |       | 1/4/19 | 0.00 0.67 | Handfinish - 1 - 1 - B4B  |              |
|                                          |       |        |           | Handfinish - 1 - 2 - B4B  |              |
|                                          |       |        |           | Handfinish - 1 - 3 - B4B  |              |
|                                          |       |        |           | Handfinish - 1 - 4 - B4B  |              |
|                                          |       |        |           | Handfinish - 1 - 5 - B4B  |              |
|                                          |       |        |           | Handfinish - 1 - 6 - B4B  |              |
|                                          |       |        |           | Handfinish - 1 - 7 - B4B  |              |
|                                          |       |        |           | Handfinish - 1 - 8 - B4B  |              |
|                                          |       |        |           | Handfinish - 1 - 9 - B4B  |              |
|                                          |       |        |           | Handfinish - 1 - 10 - B4B | D.R 19/01/11 |
|                                          |       |        |           | Handfinish - 1 - 11 - B4B |              |
|                                          |       |        |           | Handfinish - 1 - 12 - B4B |              |
|                                          |       |        |           | Handfinish - 1 - 13 - B4B |              |
|                                          |       |        |           | Handfinish - 1 - 14 - B4B |              |
|                                          |       |        |           | Handfinish - 1 - 15 - B4B |              |

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                               |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                               |  |
| Date : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sequence #: _____                                                                                                                 | QTY Affected : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | MRB (QSI042)                  |  |
| <b>Description Work Order Deviation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   | <b>Disposition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <b>Completed By</b>           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | <b>Lead hand / Supervisor</b> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | <b>QC / QA Coordinator</b>    |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                               |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                               |  |



|                                 |       |        |           |                           |                |
|---------------------------------|-------|--------|-----------|---------------------------|----------------|
|                                 |       |        |           | Handfinish - 1 - 16 - B4B |                |
|                                 |       |        |           | Handfinish - 1 - 17 - B4B |                |
|                                 |       |        |           | Handfinish - 1 - 18 - B4B |                |
|                                 |       |        |           | Handfinish - 1 - 19 - B4B |                |
|                                 |       |        |           | Handfinish - 1 - 20 - B4B |                |
|                                 |       |        |           | Handfinish - 1 - 21 - B4B |                |
|                                 |       |        |           | Handfinish - 1 - 22 - B4B |                |
| 160 QC 7                        | 6 pcs | 1/4/19 | 0.00 0.00 | QC 7 - 10                 |                |
|                                 |       |        |           | QC 7 - 13                 |                |
|                                 |       |        |           | QC 7 - 14                 |                |
|                                 |       |        |           | QC 7 - 15                 |                |
|                                 |       |        |           | QC 7 - 17                 |                |
|                                 |       |        |           | QC 7 - 18                 |                |
|                                 |       |        |           | QC 7 - 19                 |                |
|                                 |       |        |           | QC 7 - 2                  |                |
|                                 |       |        |           | QC 7 - 28                 |                |
|                                 |       |        |           | QC 7 - 3                  |                |
|                                 |       |        |           | QC 7 - 30                 |                |
|                                 |       |        |           | QC 7 - 34                 | DAS            |
|                                 |       |        |           | QC 7 - 36                 | 36             |
|                                 |       |        |           | QC 7 - 37                 | 9-89           |
|                                 |       |        |           | QC 7 - 38                 |                |
|                                 |       |        |           | QC 7 - 41                 |                |
|                                 |       |        |           | QC 7 - 47                 |                |
|                                 |       |        |           | QC 7 - 48                 |                |
|                                 |       |        |           | QC 7 - 51                 |                |
|                                 |       |        |           | QC 7 - 58                 |                |
|                                 |       |        |           | QC 7 - 59                 |                |
|                                 |       |        |           | QC 7 - 6                  |                |
|                                 |       |        |           | QC 7 - 60                 |                |
|                                 |       |        |           | QC 7 - 9                  |                |
|                                 |       |        |           | QC 7 - 68                 |                |
|                                 |       |        |           | QC 7 - 50                 |                |
|                                 |       |        |           | QC 7 - 67                 |                |
| 180 Small Fab - 3 - B4B         | 6 pcs | 1/4/19 | 0.00 3.00 | Small Fab - 1 - B4B       |                |
|                                 |       |        |           | Small Fab - 2 - B4B       |                |
|                                 |       |        |           | Small Fab - 3 - B4B       | DAS            |
|                                 |       |        |           | Small Fab - 4 - B4B       | 36             |
|                                 |       |        |           | Small Fab - 5 - B4B       | 9-89           |
|                                 |       |        |           | Small Fab - 6 - B4B       |                |
|                                 |       |        |           | Small Fab - 7 - B4B       |                |
| 190 QC 5                        | 6 pcs | 1/4/19 | 0.00 0.00 | QC 5 - 10                 |                |
|                                 |       |        |           | QC 5 - 12                 |                |
|                                 |       |        |           | QC 5 - 17                 |                |
|                                 |       |        |           | QC 5 - 18                 |                |
|                                 |       |        |           | QC 5 - 19                 |                |
|                                 |       |        |           | QC 5 - 22                 |                |
|                                 |       |        |           | QC 5 - 24                 |                |
|                                 |       |        |           | QC 5 - 3                  |                |
|                                 |       |        |           | QC 5 - 38                 |                |
|                                 |       |        |           | QC 5 - 42                 |                |
|                                 |       |        |           | QC 5 - 43                 |                |
|                                 |       |        |           | QC 5 - 49                 |                |
|                                 |       |        |           | QC 5 - 51                 |                |
|                                 |       |        |           | QC 5 - 58                 | DAS            |
|                                 |       |        |           | QC 5 - 68                 | JAN 14 2019 63 |
|                                 |       |        |           | QC 5 - 9                  | 9-89           |
|                                 |       |        |           | QC 5 - 50                 |                |
|                                 |       |        |           | QC 5 - 30                 |                |
| 200 Packaging 3-1 - Stock - B4B | 6 pcs | 1/4/19 | 0.00 0.00 | Packaging 3 - 1 - B4B     |                |

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-direction: column;"> <div> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                        |  |



Sheet

- Packaging 3 - 2 - B4B
- Packaging 3 - 3 - B4B
- Packaging 3 - 4 - B4B
- Packaging 3 - 5 - B4B
- Packaging 3 - 6 - B4B
- Packaging 3 - 7 - B4B
- Packaging 3 - 8 - B4B
- Packaging 3 - 9 - B4B
- Packaging 3 - 10 - B4B
- Packaging 3 - 11 - B4B
- Packaging 3 - 12 - B4B
- Packaging 3 - 13 - B4B
- Packaging 3 - 14 - B4B
- Packaging 3 - 15 - B4B
- Packaging 3 - 16 - B4B
- Packaging 3 - 17 - B4B
- Packaging 3 - 18 - B4B
- Packaging 3 - 19 - B4B
- Packaging 3 - 20 - B4B
- Packaging 3 - 21 - B4B
- Packaging 3 - 22 - B4B
- Packaging 3 - 23 - B4B
- Packaging 3 - 24 - B4B
- Packaging 3 - 25 - B4B
- Packaging 3 - 26 - B4B

DAS 6 JAN 12 2019

210 QC 21 - SA 6 pcs 1/4/19 0.00 0.00

QC 21 - SA - 21

DAS

21 JAN 14 2019

Part Op 100 - 1-Cut D3779-5 as per Dwg D3779 Dwg Rev: \_\_\_\_\_ Prog Rev: \_\_\_\_\_ 2-Debur if necessary

Descriptions: 110 - QC2- Inspect parts off machine FAI/FAIB

120 - QC8- Inspect parts - second check

130 - (Small Fab) 1- counter sink holes as per dwg D3779 2- deburr

140 - QC5- Inspect part completeness to step on W/O

150 - Chemical Conversion Coat per QSI005 4.1

160 - QC7-Inspect Chemical Conversion Coat

180 - (Small Fab) 1- rivet D3203-1 handle to D3779-5 plate as per dwg D3779 per QSI003

190 - QC5- Inspect part completeness to step on W/O

200 - Identify as per dwg & Stock Location: \_\_\_\_\_

210 - QC21- Final Inspection - Work Order Release

### Job BOM

| Part / Item    | Component Name     | Quantity             | Operation               | Container |
|----------------|--------------------|----------------------|-------------------------|-----------|
| M6061T6S.125   | 6061-T6 .125 Sheet | 2.6190 sf (.4365 ea) | 100-Waterjet - Flow - 1 |           |
| D3203-1        | Handle             | 6 pcs (1 ea)         | 180-Small Fab - 3 - B4B |           |
| MS20426AD10-9A | Rivet              | 24 Ea (4 ea)         | 180-Small Fab - 3 - B4B |           |

### Job Allocations

| Operation               | Component Part | Required | Inventory | Allocated |
|-------------------------|----------------|----------|-----------|-----------|
| 100-Waterjet - Flow - 1 | M6061T6S.125   | 3        | 58        | 0         |
| 180-Small Fab - 3 - B4B | D3203-1        | 6        | 14        | 0         |
|                         | MS20426AD10-9A | 24       | 290       | 0         |

### Part Specifications

Specifications could not be found.

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

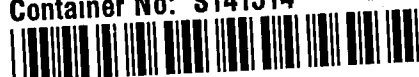
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                      |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br><div style="display: flex;"> <div style="flex: 1;">           Operator <input type="checkbox"/><br/>           Manufacturing Process <input type="checkbox"/><br/>           Equip/Tooling <input type="checkbox"/><br/>           Handling/Presservation <input type="checkbox"/><br/>           Material <input type="checkbox"/><br/>           Product Improvement <input type="checkbox"/><br/>           Process Improvement <input type="checkbox"/><br/>           Human Factors <input type="checkbox"/> </div> <div style="flex: 1;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex;"> <div style="flex: 1;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="flex: 1;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="flex: 1;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |







**Container No: S141514**



**Part: D3779-043**

**Job No: 188031**

**Serial No/Batch: S141514**

**Revision:**

**Inspector:**

**Exp Date:**

**Instructions: Various STC's**

**Dart Aerospace Ltd.**  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
CANADA  
TEL: 1 813 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

**Date: 01/03/19**